

To: Eliel Villa
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From: Steven Foster
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Date: September 23, 1999

Ref: Field Evaluations for Prototype Alternative Light Source

Mr. Villa,

This is a brief evaluation of the field tests of the prototype alternative light source provided by your agency as part of the Law Enforcement Initiative. Due to the types of calls responded to by this office in the past few months, a thorough field test of the light source has not been completed. However, the device has been utilized in fluorescent fingerprinting techniques in an office/laboratory environment. This evaluation is based on that usage of the light source.

- 1) The light source meets the size, weight and portability specifications requested.
- 2) The light source meets the requirements of the 450 nanometer light range commonly used with fluorescent fingerprint powders and dye stains.
- 3) The light source is comfortable to wear and directs the light beam to the users line of sight.

The only improvements that would be suggested through the current field trials are as follows:

- 1) The light bulb configuration currently disperses light in an uneven spread. The possible use of mirrors to the rear of the bulbs may be useful in focusing the light beam in an even spread, as well as increasing the amount of light directed on the surface being examined.
- 2) The candle power of the light is currently insufficient to support filtered fluorescent photography. A temporary power boost feature may be useful in order to increase the light power output temporarily to support photography, with the ability to again reduce power to a general/search mode. In addition to this power boost feature, a hot shoe mount could be added to the bottom of the light source in order to mount the light to a camera for proper alignment to the target to be photographed.

If additional recommendations are developed through further field tests of the light source, they will be documented and forwarded to you. If I can be of further assistance, please do not hesitate to contact me.

EXHIBIT F



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LIGHT SOURCE EVALUATION